CONTENTS

Nutrition Science from Vitamins to Molecular Biology, Thomas H.	
Jukes	1
Goitrogens in Food and Water, Eduardo Gaitan	21
The Application of Compartmental Analysis to Research in	41
Nutrition, Michael H. Green and Joanne Balmer Green	41
Metallothionein and the Trace Minerals, I. Bremner and J. H. Beattie	63
Adaptation of the Exocrine Pancreas to Diet, P. M. Brannon	85
Amino Acid Metabolism in Human Cancer Cachexia, Peter W. T.	
Pisters and Murray F. Brennan	107
Iron Deficiency, R. D. Baynes and T. H. Bothwell	133
Effects of N-3 Fatty Acids on Lipid Metabolism, P. J. Nestel	149
Plasma Lipid Transfer Activities, David W. Quig and Donald B. Zilversmit	169
The Role of Vitamin D in Bone and Intestinal Cell Differentiation, Tatsuo Suda, Toshimasa Shinki, and Naoyuki Takahashi	195
Nutrient Partitioning by Transgenic Animals, Norman C. Steele and Vernon G. Pursel	213
Nutritional Factors in Cataract, George Edwin Bunce, Jin Kinoshita, and Joseph Horwitz	233
Regulation of Energy Expenditure in Aging Humans, Eric T. Poehlman and Edward S. Horton	255
The Role of Nutrition in Neural Tube Defects, J. M. Scott, P. N. Kirke, and D. G. Weir	277
The Cofactor Pyrroloquinoline Quinone, J. A. Duine, R. A. van der Meer, and B. W. Groen	297
Folate-Binding Proteins, Gary B. Henderson	319
Lipoprotein Assembly and Secretion by Hepatocytes, Jean E.	
Vance and Dennis E. Vance	337

(continued)

viii CONTENTS (Continued)

Vitamin E: Antioxidant Activity, Biokinetics, and Bioavailability,	
Graham W. Burton and Maret G. Traber	357
Appetite Regulation by Gut Peptides, John E. Morley	383
The Role of Calcium in Osteoporosis, C. D. Arnaud and S. D. Sanchez	397
Zinc Deficiency and Immune Function, Carl L. Keen and M. Eric Gershwin	415
Essential Fatty Acids and Polyunsaturated Fatty Acids: Significance in Cutaneous Biology, Vincent A. Ziboh and Craig C. Miller	433
Molecular Biology of Selenoproteins, Roger A. Sunde	451
Nutritional Aspects of AIDS, G. T. Keusch and M. J. G.	
Farthing	475
Indexes	
Subject Index	503
Cumulative Index of Contributing Authors, Volumes 6-10	517
Cumulative Index of Chapter Titles, Volumes 6-10	519

